

Title (en)  
Optical area scanning device

Title (de)  
Optische Bereichsabtastvorrichtung

Title (fr)  
Dispositif optique d'examen d'une zone

Publication  
**EP 1983298 A1 20081022 (EN)**

Application  
**EP 07121080 A 20071120**

Priority  
IT MO20070139 A 20070420

Abstract (en)  
An optical scanning device (1), particularly for detecting the shape of an object, which comprises: at least one light source (2) adapted to emit light and at least one detection sensor (3) which comprises a light-sensitive surface (3a) and is arranged so as to receive the light emitted by the light source. The device further comprises a volume (10) which is arranged along a path of the light from the light source (2) to the detection sensor (3) so that the light source can illuminate the volume (10), which is adapted to accommodate an object (T) to be detected so that the object (T) interrupts the transmission of at least part of the light onto the detection sensor (3), thus projecting the profile of the object (T) onto the sensitive surface (3a) of the detection sensor (3), the detection sensor (3) being adapted to emit an electrical signal which is proportional to the area of the sensitive surface (3 a) struck by the light emitted by the light source (2).

IPC 8 full level  
**G01B 11/24** (2006.01); **G01B 11/28** (2006.01)

CPC (source: EP)  
**G01B 11/2433** (2013.01); **G01B 11/285** (2013.01)

Citation (search report)  
• [XY] US 4917117 A 19900417 - BROM RICHARD [FR], et al  
• [XY] GB 2082768 A 19820310 - MADAUS & CO DR  
• [XY] EP 0298588 A1 19890111 - OVONIC IMAGING SYSTEMS INC [US]  
• [XY] GB 388033 A 19330207 - MICHAEL BUCZACZER  
• [XY] DE 4201385 A1 19930722 - RENNER PETER DIPL ING [DE]  
• [XY] JP S60213808 A 19851026 - HOKUSAN KK  
• [Y] DE 10336718 A1 20050317 - KRUESS GMBH WISSENSCHAFTLICHE [DE]  
• [Y] US 5362151 A 19941108 - OLLIVIER JEAN-FRANCOIS [FR], et al  
• [Y] US 6301549 B1 20011009 - BARNEY MATTHEW F [US]

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
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DOCDB simple family (application)  
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